## **LISTING OF CLAIMS**

This listing of claims provided below will replace all prior versions and listings of claims in the application.

Claims 1-21. (Canceled).

- (Currently Amended) A method of determining whether newly synthesized target antibody is present in a body fluid sample in response to an immunogen comprising: The method as claimed in claim 21 comprising the steps of:
- (i) (ii) lysing said-lymphocytes whereby to release said target antibodies or parts thereof from said lymphocytes, wherein said lymphocytes are obtained obtaining from a whole blood the sample containing lymphocytes from a subject suspected of undergoing an immune response whereby the lymphocytes are in acute phase of antibody synthesis; and
- (ii) (iii) detecting said released target antibodies or parts thereof from the lysed lymphocytes, whereby to determine the presence of newly synthesized target antibody from the lymphocytes indicates whether newly synthesized antibodies are in the body fluid sample.
  - 23. (Canceled).
- (Currently Amended) The method of elaim 21 claim 22, wherein said blood sample is peripheral blood.
- (Currently Amended) The method as claimed in claim 21 or 22, wherein the sample is not incubated to promote synthesis and/or secretion of antibodies prior to the method.
- (Currently Amended) The method as claimed in claim 21 or 22, wherein the lymphocytes are lysed by using physical disruption means or cell-disrupting buffers or solutions.

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5 21.	(Currently Amended) The method as claimed in claim 21 or 22, wherein
the target anti	bodies or parts thereof are detected by binding to one or more antigens
which recogn	ize said antibodies or parts thereof.
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6 28.	(Currently Amended) The method as claimed in claim 21 or 22, wherein
	arget antibodies are detected by means of a solid phase binding assay.
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29	(Previously Presented) The method of claim 28, wherein the solid phase of
said solid pha	se binding assay carries one or more antigens recognized by the target
antibody or a	ntibodies or parts thereof to be detected.
30.	(Canceled)
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9 34.	(Previously Presented) The method of claim 28, wherein the solid phase of
' /	(Previously Presented) The method of claim 28, wherein the solid phase of se binding assay carries one or more antibodies, which recognize the target
said solid pha	(Previously Presented) The method of claim 28, wherein the solid phase of se binding assay carries one or more antibodies, which recognize the target arget antibodies or parts thereof to be detected.
said solid pha antibody or ta	se binding assay carries one or more antibodies, which recognize the target arget antibodies or parts thereof to be detected.
said solid pha antibody or ta	se binding assay carries one or more antibodies, which recognize the target arget antibodies or parts thereof to be detected.
said solid pha antibody or ta	se binding assay carries one or more antibodies, which recognize the target
said solid pha antibody or ta 12 32. the method is	se binding assay carries one or more antibodies, which recognize the target arget antibodies or parts thereof to be detected.  (Currently Amended) The method as claimed in claim 21-or 22, wherein
said solid pha antibody or ta 12 32. the method is newly synthes	se binding assay carries one or more antibodies, which recognize the target arget antibodies or parts thereof to be detected.  (Currently Amended) The method as claimed in claim 21-or 22, wherein performed on neonate or infant blood samples for distinguishing between sized antibodies and passively transferred maternal antibodies.
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said solid pha antibody or ta 12 32. the method is newly synthes 13 25.	se binding assay carries one or more antibodies, which recognize the target arget antibodies or parts thereof to be detected.  (Currently Amended) The method as claimed in claim 21-or 22, wherein performed on neonate or infant blood samples for distinguishing between sized antibodies and passively transferred maternal antibodies.
said solid pha antibody or ta 12 32. the method is newly synthes 13 25. prior to disrup	se binding assay carries one or more antibodies, which recognize the target arget antibodies or parts thereof to be detected.  (Currently Amended) The method as claimed in claim 21 or 22, wherein performed on neonate or infant blood samples for distinguishing between sized antibodies and passively transferred maternal antibodies.  (Currently Amended) The method as claimed in claim 21 or 22, wherein
said solid pha antibody or ta /2 32. the method is newly synthes /3 25. prior to disrup sample is stor	(Currently Amended) The method as claimed in claim 21-or 22, wherein performed on neonate or infant blood samples for distinguishing between sized antibodies and passively transferred maternal antibodies.  (Currently Amended) The method as claimed in claim 21-or 22, wherein between sized antibodies and passively transferred maternal antibodies.  (Currently Amended) The method as claimed in claim 21-or 22, wherein beting the lymphocytes, or after disruption but prior to the detection step, said at about 4 °C or less.
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said solid pha antibody or ta 12 32. the method is newly synthes 13 23. prior to disrup sample is stor	se binding assay carries one or more antibodies, which recognize the target arget antibodies or parts thereof to be detected.  (Currently Amended) The method as claimed in claim 21-or 27, wherein performed on neonate or infant blood samples for distinguishing between sized antibodies and passively transferred maternal antibodies.  (Currently Amended) The method as claimed in claim 21-or 27, wherein on the lymphocytes, or after disruption but prior to the detection step, said

15 35. (Currently Amended) The method as claimed in claim 21 or 22, wherein
the lymphocytes are directly isolated from said blood sample.
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(Currently Amended) The method as claimed in claim 21 or 22, wherein
the detecting step is performed by immunoassay.
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(Previously Presented) The method of claim 36, wherein the immunoassay
is enzyme linked immunosorbent assay.
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(Previously Presented) The method of claim 31, wherein one or more
antigens, recognized by the target antibodies immobilized on said solid phase, are
contacted with said solid phase.
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(Previously Presented) The method of claim 25 or 37, wherein one or more antibodies, which recognize target antibodies immobilized on said solid phase, are
(Previously Presented) The method of claim 29 or 31, wherein one or
(Previously Presented) The method of claim 25 or 37, wherein one or more antibodies, which recognize target antibodies immobilized on said solid phase, are contacted with said solid phase.
(Previously Presented) The method of claim 26 or 37, wherein one or more antibodies, which recognize target antibodies immobilized on said solid phase, are
(Previously Presented) The method of claim 25 or 37, wherein one or more antibodies, which recognize target antibodies immobilized on said solid phase, are contacted with said solid phase.
(Previously Presented) The method of claim 25 or 37, wherein one or more antibodies, which recognize target antibodies immobilized on said solid phase, are contacted with said solid phase.  (Currently Amended) The method as claimed in claim 21 or 22, wherein
(Previously Presented) The method of claim 25 or 37, wherein one or more antibodies, which recognize target antibodies immobilized on said solid phase, are contacted with said solid phase.  (Currently Amended) The method as claimed in claim 21 or 27, wherein the detection step comprises the addition of an enzyme-antibody conjugate or an enzyme-
(Previously Presented) The method of claim 26 or 37, wherein one or more antibodies, which recognize target antibodies immobilized on said solid phase, are contacted with said solid phase.  (Currently Amended) The method as claimed in claim 21 or 27, wherein the detection step comprises the addition of an enzyme-antibody conjugate or an enzymeantigen conjugate, and the addition of a soluble substrate, wherein said soluble substrate yields a spectrophotometrically detectable signal.
(Previously Presented) The method of claim 25 or 37, wherein one or more antibodies, which recognize target antibodies immobilized on said solid phase, are contacted with said solid phase.  (Currently Amended) The method as claimed in claim 21 or 22, wherein the detection step comprises the addition of an enzyme-antibody conjugate or an enzyme-antigen conjugate, and the addition of a soluble substrate, wherein said soluble substrate
(Previously Presented) The method of claim 26 or 37, wherein one or more antibodies, which recognize target antibodies immobilized on said solid phase, are contacted with said solid phase.  (Currently Amended) The method as claimed in claim 21 or 27, wherein the detection step comprises the addition of an enzyme-antibody conjugate or an enzymeantigen conjugate, and the addition of a soluble substrate, wherein said soluble substrate yields a spectrophotometrically detectable signal.

performed using a negative control antigen.

(Previously Presented) The method of claim 28, wherein multiple solid phases are employed each bearing a different target antigen, which recognizes a different target antibody.

43-46. (Canceled).

(Currently Amended) The method of claim 21 claim 22 further comprising determining the amount of a newly synthesized target antibody comprising:

comparing said antibody binding to antibody binding in control and/or reference samples, whereby to obtain a determination of the amount of newly synthesized antibody in response to said antigend.

21\_48. (Currently Amended) The method as claimed in claim 21 or 47, wherein the newly synthesized antibody is synthesized in vivo.

(Currently Amended) The method as claimed in <u>claim 22</u> elaim 21 or 47, wherein the newly synthesized antibody is an antigenically active antibody, which has been produced or synthesized by and within a lymphocyte in vivo as part of an ongoing immune response.